



Docket No. 220583US0X PCT
IN RE APPLICATION OF: Takuji OKAMOTO, et al.
SERIAL NO: 10/088,505
FILED: March 28, 2002
FOR: PROPYLENE POLYMERS AND RESIN COMPOSITION AND MOLDING CONTAINING THE POLYMERS

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:
Transmitted herewith is an amendment in the above-identified application.

- ☐ No additional fee is required
☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.
☒ Additional documents filed herewith: Request for Extension of Time (1 month)

The Fee has been calculated as shown below:

CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS	RATE	CALCULATIONS
TOTAL	26	MINUS	30	0	x \$18 =	\$0.00
INDEPENDENT	5	MINUS	6	0	x \$86 =	\$0.00
		<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS			+ \$290 =	\$0.00
		TOTAL OF ABOVE CALCULATIONS				\$0.00
		<input type="checkbox"/> Reduction by 50% for filing by Small Entity				\$0.00
		<input type="checkbox"/> Recordation of Assignment			+ \$40 =	\$0.00
		TOTAL				\$0.00

- ☐ A check in the amount of **\$0.00** is attached.
- ☒ Credit card payment form is attached to cover the fees in the amount of **\$110.00**
- ☒ Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- ☒ If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

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Dept.: C

By: NFO/KAG/scs

OSMM&N File No. 220583US0X PC

Serial No. 10/088,505

In the matter of the Application of: Takuji OKAMOTO, et al.

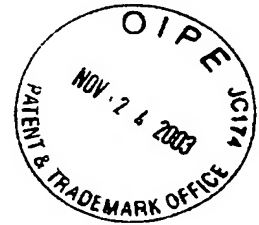
For: PROPYLENE POLYMERS AND RESIN COMPOSITION AND MOLDING
CONTAINING THE POLYMERS

Due Date: 11/24/03

The following has been received in the U.S. Patent Office on the date stamped hereon:

- Dep. Acct. Order Form
- Credit Card Form for \$110.00
- PTO Transmittal Letter
- Amendment and Request for Reconsideration
- Request for Extension of Time (1 month)

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,505	03/28/2002	Takuji Okamoto	220583USOXPCT	2412

22850 7590 04/16/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
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EXAMINER

LU, C CAIXIA

ART UNIT PAPER NUMBER

1713

DATE MAILED: 04/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED: 4/19/04
OBLON, SPIVAK, MCCLELLAND
MAIER & NEUSTADT, P.C.

DOCKETING DEPT

Initials/Date Docketed: SP 4/19/04
Type of Resp(s): RD 10/16/04
Due Date(s): 7/16/04 8/16/04



Office Action Summary

Application No.

10/088,505

Applicant(s)

OKAMOTO ET AL.

Examiner

Caixia Lu

Art Unit

1713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15, 18, 21-24 and 26-31 is/are pending in the application.
- 4a) Of the above claim(s) 1, 6, 7, 12-15, 18, 23, 24 and 27-30 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 3-5, 8-11, 17, 21, 22, 26 and 31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group II, Claims 3-5, 8-11, 17, 21, 22, 26 and 31 in Remarks filed on Feb. 25, 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, and applicant's arguments over the burden of search and standard of unity of invention are irrelevant because they are not related to restriction requirement as set forth in the previous office action mailed on Jan. 26, 2004, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102/103

2. Claims 3-5, 8-11, 26 and 31 rejected under 35 U.S.C. 103(a) as being unpatentable over Gauthier et al. (Macromolecules 1995, 28, 3771-3778).

Gauthier teaches propylene homopolymers prepared in the presence of bridged metallocenes. The propylene polymers, Entries 1 and 2 listed in Tables 4 and 5, have no melting temperature, (mmmm) and (mm)(rr)/(mr)² which meet those limitations of the instant claims 31, 3, 4, and 26.

Gauthier does not disclose other properties of the polypropylene such as hexane solubles, intrinsic viscosity, $[\eta]/(1-\text{mmmm})$, W25 and fractions of (mrm). However, those characteristic are controlled by the polymer structure or molecular weight. Because Gauthier's polypropylene is prepared by a metallocene catalyst which is in the same category of catalysts as those of applicants and melting temperature, and (mmmm) and (mm)(rr)/(mr)² characteristics meet those limitations of the instant claims,

one would have expected the structure Gauthier 's polymer to be the same or substantially the same as that of the instant claims, thus, characteristics such as [rrrr/(1-mmmm)], W25 and fractions of (rmm) are also expected to inherently encompass those of the instant claims.

Once a product appearing to be substantially identical is found and a 35 USC 102/103 rejection made, the burden of proof is shifted to the applicant to show an unobvious difference. In re Fitzgerald, 205 USPQ 594. In re Fessmann, 180 USPQ 324. Applicants have not met their burden to demonstrate an unobvious difference between the claimed product and the products of the prior art examples.

Claim Rejections - 35 USC § 103

3. Claims 17, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gauthier et al. (Macromolecules 1995, 28, 3771-3778) in view of Tanizaki et al. (US 5,998,039).

Gauthier's teaching of preparation of propylene polymer is relied upon as shown above. While Gauthier does not expressly teach preparation of a resin comprising the propylene polymer and a nucleating agent and a molded product from the propylene polymer. Preparation of a molding product from a propylene polymer are conventional in the art and a nucleating agent are often added to the propylene polymer during the melting molding process to increase the crystallization rate in high-speed molding process. Such is taught in Tanizaki col. 29, lines 7-10.

Thus, it would have been obvious to a skilled artisan at the time the invention was made to employ Tanizaki's teaching to Gauthier's propylene polymer to prepared a

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molding product by introducing a nucleating agent to the polymer since such is conventionally done in the art to optimize the productivities and enhance crystallinity of the molding product and in the absence of any showing criticality and unexpected results.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The

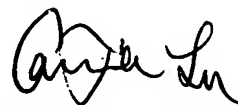
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fax numbers for the organization where this application or proceeding is assigned is
(703 872-9306.

Any inquiry of a general nature or relating to the status of this application or
proceeding should be directed to the receptionist whose telephone number is (571) 272-
1700.



Caixia Lu, Ph. D.
Primary Examiner
Art Unit 1713

**Notice of References Cited**

Application/Control No.

10/088,505

Applicant(s)/Patent Under
Reexamination
OKAMOTO ET AL.

Examiner

Caixia Lu

Art Unit

1713

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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,708,101	01-1998	Bercaw et al.	526
	B	US-5,998,039	12-1999	Tanizaki et al.	428
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.